

SEARCH REQUEST FORM

Scientific and Technical Information Center

Access DB#

83281

Requester's Full Name: Ben Sackey Examiner #: 73489 Date: 12/20/02
 Art Unit: 1630 Phone Number 305-685-9 Serial Number: 10/62/412
 Mail Box and Bldg/Room Location: LOS 3F11 Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Process for the preparation of naproxene nitroxyalkyl esters

Inventors (please provide full names): Benedini et al

Earliest Priority Filing Date: 5/4/99

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

Process for preparing nitroxyalkyl esters of naproxene as defined in the claims in the presence of an acidic residue.
 A-O-T-CH₃
 as defined in the claims in the presence of an acidic residue
 A → an acidic residue

STAFF USE ONLY

Searcher: K. F. 111

Searcher Phone #: _____

Searcher Location: _____

Date Searcher Picked Up: _____

Date Completed: 1/21/03

Searcher Prep & Review Time: 20

Clerical Prep Time: _____

Online Time: 14

Type of Search

NA Sequence (#) _____

AA Sequence (#) _____

Structure (#) 1

Bibliographic _____

Litigation _____

Fulltext _____

Patent Family _____

Other _____

Vendors and cost where applicable

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Dialog _____

Questel/Orbit _____

Dr Link _____

Lexis/Nexis _____

Sequence Systems _____

WWW/Internet _____

Other (specify) _____

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STRUCTURE FILE UPDATES: 20 JAN 2003 HIGHEST RN 479577-81-6
DICTIONARY FILE UPDATES: 20 JAN 2003 HIGHEST RN 479577-81-6

TSCA INFORMATION NOW CURRENT THROUGH MAY 20, 2002

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Experimental and calculated property data are now available. See HELP
PROPERTIES for more information. See STNote 27, Searching Properties
in the CAS Registry File, for complete details:
<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

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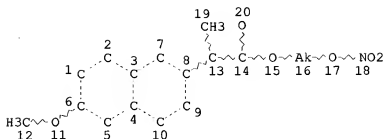
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FILE COVERS 1907 - 21 Jan 2003 VOL 138 ISS 4
FILE LAST UPDATED: 20 Jan 2003 (20030120/ED)

This file contains CAS Registry Numbers for easy and accurate
substance identification.

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L5 STR



*6 structures from
the query
which covers
naproxene nitroxyalkyl
esters*

NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 20

STEREO ATTRIBUTES: NONE

L7 6 SEA FILE=REGISTRY SSS FUL L5
L8 17 SEA FILE=HCAPLUS ABB=ON L7
L9 4 SEA FILE=HCAPLUS ABB=ON L8(L) (PREP OR IMF OR SPN)/RL

4 preparations

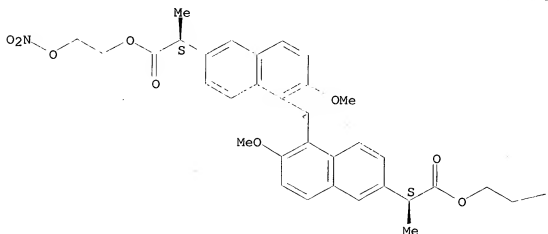
=> d 19 all 1-4 hitstr

L9 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2003 ACS
AN 2001:229959 HCAPLUS
DN 135:92422
TI Synthesis and cyclooxygenase inhibitory properties of novel (+)
2-(6-methoxy-2-naphthyl)propanoic acid (naproxen) derivatives
AU Abadi, Ashraf H.; Laufer, Stefan; Lehmann, Jochen
CS Institute of Pharmacy, University of Bonn, Bonn, D-53121, Germany
SO Archiv der Pharmazie (Weinheim, Germany) (2001), 334(3), 104-106
CODEN: ARPMAS; ISSN: 0365-6233
PB Wiley-VCH Verlag GmbH
DT Journal
LA English
CC 25-22 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
OS CASREACT 135:92422
AB Halomethylation of naproxen occurs regioselectively in position 5 and
subsequently - in situ or on treatment with silver nitrate - leads to
naproxen dimers with two naproxen units, 5,5'-connected through a
ethenylene and a methylene bridge, resp. Two of the new naproxen derivs.
were screened for their cyclooxygenase inhibitory properties relative to
naproxen. Both 5-(chloromethyl)naproxen and 2-[5-[(carboxyethyl)-2-
methyloxynaphthyl]-6-methoxy-2-naphthyl]propanoic acid were inactive in
the concn. range of 0.1-10 .mu.mole against both COX-1 and COX-2,
indicating that bulky substituents in position 5 in naproxen are
unfavorable for both COX-1 and COX-2 inhibition. The naproxen derivs.
thus prepd. were found to be inactive as cyclooxygenase inhibitors.
ST naproxen dimer prepn cyclooxygenase inhibitor
IT 540-51-2, 2-Bromoethanol 22204-53-1, (+)-Naproxen 38483-29-3,
2-Nitroxyethyl bromide
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. and cyclooxygenase inhibitory properties of
(+)-2-(6-methoxy-2-naphthyl)propanoic acid (naproxen) derivs.)

- IT 349492-87-1P 349492-89-3P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (prepn. and cyclooxygenase inhibitory properties of
 (+)-2-(6-methoxy-2-naphthyl)propanoic acid (naproxen) derivs.)
- IT 349492-88-2P 349492-90-6P 349492-91-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclooxygenase inhibitory properties of
 (+)-2-(6-methoxy-2-naphthyl)propanoic acid (naproxen) derivs.)
- RE.CNT 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD
 RE
- (1) Allison, M; N Engl J Med 1992, V327, P749 MEDLINE
 - (2) Anon; Vogel's Textbook of Practical Organic Chemistry, 4th edition 1986, P762
 - (3) Cook, A; J Chem Soc 1941, P502 HCAPLUS
 - (4) Davies, N; Aliment Pharmacol Ther 1997, V11, P69 HCAPLUS
 - (5) Donnelly, M; Aliment Pharmacol Ther 1997, V11, P227
 - (6) Elliott, S; Gastroenterology 1995, V109, P614
 - (7) Forrest, J; Drug Saf 1997, V16, P309 HCAPLUS
 - (8) Gierse, J; J Biol Chem 1996, V271, P15810 HCAPLUS
 - (9) Jackson, L; Drugs 2000, V59, P1207 HCAPLUS
 - (10) Kartasasmita, E; in preparation
 - (11) Kawashima, Y; J Med Chem 1993, V36, P815 HCAPLUS
 - (12) Laufer, S; Arch Pharm Pharm Med Chem 1997, V330, P307 HCAPLUS
 - (13) Laufer, S; Inflamm Res 1999, V48, P133 HCAPLUS
 - (14) Singh, G; J Rheumatol 1999, V26, P18
 - (15) Smith, W; J Biol Chem 1996, V271, P33157 HCAPLUS
 - (16) Somasundaram, S; Gut 1997, V40, P608 HCAPLUS
 - (17) Towheed, T; J Rheumatol 1997, V24, P349 HCAPLUS
- IT 349492-91-7P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (prepn. and cyclooxygenase inhibitory properties of
 (+)-2-(6-methoxy-2-naphthyl)propanoic acid (naproxen) derivs.)
- RN 349492-91-7 HCAPLUS
- CN 2-Naphthaleneacetic acid, 5,5'-methylenebis[6-methoxy-.alpha.-methyl-, bis[2-(nitrooxy)ethyl] ester, (.alpha.S,.alpha.'S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L9 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2003 ACS
 AN 2001:115100 HCAPLUS
 DN 134:178355
 TI Process for the preparation of naproxene nitroxyalkyl esters
 IN Benedini, Francesca; Oldani, Erminio; Castaldi, Graziano; Tarquini, Antonio
 PA Nicox S.A., Fr.
 SO PCT Int. Appl., 16 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07C203-04
 CC 25-24 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 FAN.CNT 1

applicanta

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2001010814	A1	20010215	WO 2000-EP7222	20000727
W:	AE, AL, AU, BA, BB, BG, BR, CA, CN, CR, CU, CZ, DM, EE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KP, KR, LC, LK, LR, LT, LV, MA, MG, MK, MN, MX, NO, NZ, PL, RO, SG, SI, SK, TR, TT, UA, US, UZ, VN, YU, ZA, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM			
RN:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG			
EP 1200386	A1	20020502	EP 2000-951456	20000727
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL			
BR 2000012915	A	20020604	BR 2000-12915	20000727
NO 2002000515	A	20020201	NO 2002-515	20020201
IT 1999-MI1753	A	19990804		
W	20000727			
W	20000727			
CASREACT 134:178355; MARPAT 134:178355				
AB	A process for obtaining nitroxyalkyl esters of the 2-(S)-(6-methoxy-2-naphthyl)propanoic acid having an enantiomeric excess higher than or equal to 95 %, preferably higher than or equal to 98 %, was characterized in that a halide of the 2-(S)-(6-methoxy-2-naphthyl)propanoic acid of formula A-Hal, wherein A is the acid acyl residue, is reacted in an inert org. solvent with an aliph. nitroxyalkanol HO-Y-ONO ₂ , wherein Y is a C2-C20 alkylene or a cycloalkylene from 3 to 8 carbon atoms, or an alkylene as			

defined contg. a cycloalkylene as defined, in the presence of an inorg. base. E.g., to a soln. of 4-nitroxybutan-1-ol and K2CO3 in dichloromethane is added 2-(S)-(6-methoxy-2-naphthyl)propanoic acid chloride. to give the 4-nitroxybutyl ester of 2-(S)-(6-methoxy-2-naphthyl)-propanoic acid (85%, ee 98%).

ST naproxene nitroxyalkyl ester prepn; naproxen nitroxyalkyl ester prepn
IT 163133-43-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of naproxene nitroxyalkyl esters)

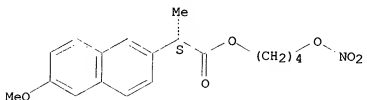
IT 22204-53-1, Naproxen 22911-39-3 51091-84-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of naproxene nitroxyalkyl esters)

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
RE
(1) Hoechst Marion Roussel Inc; FR 2757159 A 1998 HCAPLUS
(2) Italfarmaco Spa; WO 9201668 A 1992 HCAPLUS
(3) Nicox Ltd; WO 9509831 A 1995 HCAPLUS
(4) Nicox Ltd; WO 9530641 A 1995 HCAPLUS
(5) Nicox Sa; WO 9716405 A 1997 HCAPLUS

IT 163133-43-5P
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP (Preparation)
(prepn. of naproxene nitroxyalkyl esters)

RN 163133-43-5 HCAPLUS
CN 2-Naphthaleneacetic acid, 6-methoxy-.alpha.-methyl-, 4-(nitrooxy)butyl ester, (.alpha.S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



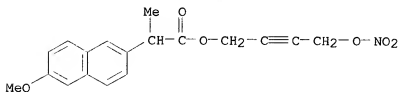
L9 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2003 ACS
AN 1998:221441 HCAPLUS
DN 128:226234
TI Nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their preparing method and use
IN Cai, Xiong; Qian, Changgeng
PA Cai, Xiong, Peop. Rep. China
SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 22 pp.
CODEN: CNXXEV
DT Patent
LA Chinese
IC ICM A61K031-215
CC 1-7 (Pharmacology)
Section cross-reference(s): 25
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
-----	-----	-----	-----	-----
PI CN 1144092	A	19970305	CN 1995-109791	19950825
PRAI CN 1995-109791		19950825		

AB The present invention provides a group of nonsteroidal anti-inflammatory

- drugs (NSAID) capable of releasing nitric oxide and their nitrates. The NSAID include aspirin, indomethacin, naproxen, brufen, pirofen, phenol pirofen, flurbiprofen, ketoprofen, and diclofenac sodium and can be extensively used as antipyretics, analgesics, and antiinflammatory for prevention and treatment of angiocardopathy and cerebrovascular diseases. The new NSAID nitrates can release nitric oxide in vivo and can reduce the toxicity of NSAID on the digestive tract.
- ST antiinflammatory NSAID nitrate prepn nitric oxide
 IT Nitrates, biological studies
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (NSAID; nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their prepg. method and use)
- IT Brain, disease
 (cerebrovascular; nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their prepg. method and use)
- IT Cardiovascular system
 (disease; nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their prepg. method and use)
- IT Analgesics
 Antipyretics
 Digestive tract
 Toxicity
 (nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their prepg. method and use)
- IT Prostaglandins
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their prepg. method and use)
- IT Anti-inflammatory agents
 (nonsteroidal; nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their prepg. method and use)
- IT 50-78-2, Aspirin 53-86-1, Indomethacin 15687-27-1, Brufen 22204-53-1, Naproxen
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); RCT (Reactant); THU (Therapeutic use); BIOL (Biological study); RACT (Reactant or reagent); USES (Uses)
 (nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their prepg. method and use)
- IT 140218-49-1P 204633-00-1P 204633-02-3P 204633-03-4P
 204633-04-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their prepg. method and use)
- IT 5104-49-4, Flurbiprofen 15307-79-6, Diclofenac sodium 22071-15-4, Ketoprofen 31793-07-4, Pirofen
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (nonsteroidal anti-inflammatory agents capable of releasing nitric oxide, their prepg. method and use)
- IT 10102-43-9, Nitric oxide, biological studies 39391-18-9, Cyclooxygenase
 RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)
 (nonsteroidal anti-inflammatory agents capable of releasing nitric

- oxide, their prepg. method and use)
 IT 627-18-9 31121-93-4 204633-01-2
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (nonsteroidal anti-inflammatory agents capable of releasing nitric
 oxide, their prepg. method and use)
 IT 204632-98-4P 204632-99-5P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (nonsteroidal anti-inflammatory agents capable of releasing nitric
 oxide, their prepg. method and use)
 IT 204633-04-5P
 RL: BAC (Biological activity or effector, except adverse); BSU (Biological
 study, unclassified); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation);
 USES (Uses)
 (nonsteroidal anti-inflammatory agents capable of releasing nitric
 oxide, their prepg. method and use)
 RN 204633-04-5 HCAPLUS
 CN 2-Naphthaleneacetic acid, 6-methoxy-.alpha.-methyl-, 4-(nitrooxy)-2-
 butynyl ester (9CI) (CA INDEX NAME)

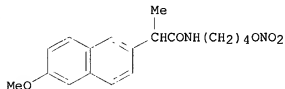


L9 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2003 ACS
 AN 1995:667266 HCAPLUS
 DN 123:82961
 TI Preparation of organic nitrate esters having antiinflammatory and/or
 analgesic activity
 IN Del Soldato, Piero
 PA Nicox Ltd., Ire.
 SO PCT Int. Appl., 46 pp.
 CODEN: PIXXD2
 DT Patent
 LA English
 IC ICM C07C203-04
 ICS C07D487-04; C07D209-28; A61K031-40; A61K031-405; A61K031-21
 ICCI C07D487-04, C07D209-00
 CC 25-24 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
 Section cross-reference(s): 1, 23

FAN.CNT 2

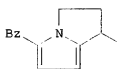
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9509831	A1	19950413	WO 1994-EP3182	19940923
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, NO, NZ, PL, RO, RU, SI, SK, TJ, TT, UA, US, UZ, VN RW: KC, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
GB 2283238	A1	19950503	GB 1993-20599	19931006
GB 2283238	B2	19971126		
CA 2173582	AA	19950413	CA 1994-2173582	19940923

AU 9478092	A1	19950501	AU 1994-78092	19940923
AU 678063	B2	19970515		
EP 722434	A1	19960724	EP 1994-928801	19940923
EP 722434	B1	19980729		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, NL, PT, SE				
HU 74446	A2	19961230	HU 1996-874	19940923
HU 218923	B	20001228		
BR 9407749	A	19970212	BR 1994-7749	19940923
JP 09503214	T2	19970331	JP 1994-510585	19940923
AT 168986	E	19980815	AT 1994-928801	19940923
ES 2120070	T3	19981016	ES 1994-928801	19940923
RU 2136653	C1	19990910	RU 1996-108907	19940923
US 5700947	A	19971223	US 1996-624508	19960405
US 5780495	A	19980714	US 1997-902570	19970729
PRAI GB 1993-20599	A	19931006		
IT 1994-MI916	A	19940510		
WO 1994-EP3182	W	19940923		
US 1996-624508	A3	19960405		
OS	CASREACT 123:82961; MARPAT 123:82961			
GI				

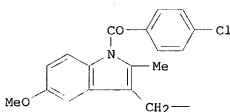


I

Q1=



Q2=



AB The title compds. MCOY[C(A)(B)]_nONO₂ [A, B = H, (un)branched alkyl; M = Q1, Q2, 2-(6-methoxy)naphthyl, etc.; n = 1-10], useful as analgesics, antiinflammatory agents, and blood platelet aggregation inhibitors, are prepd. Thus, 2-(6-methoxy-2-naphthyl)propionic acid was converted into its Na carboxylate salt with NaOEt, the salt condensed with 1-bromo-4-chlorobutane, and the 4-chlorobutyl 2-(6-methoxy-2-naphthyl)propionate intermediate nitrated by reaction with AgNO₃, producing the 4-nitratobutyl ester, II.

ST nitratobutyl methoxynaphthylpropionate prepn analgesic; antiinflammatory prepn nitratobutyl methoxynaphthylpropionate

IT Analgesics
Blood platelet aggregation inhibitors
Inflammation inhibitors
(org. nitrate esters)

IT 164790-47-OP 164790-48-1P 164790-49-2P 170591-17-OP
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

- (prepn. of org. nitrate esters having antiinflammatory and/or analgesic activity)
- IT 110-52-1, 1,4-Dibromobutane 1074-82-4, Potassium phthalimide
6940-78-9, 1-Bromo-4-chlorobutane 7761-88-8, Silver nitrate, reactions
7789-60-8, Phosphorous tribromide 23981-80-8, 2-(6-Methoxy-2-naphthyl)propionic acid 74103-06-3, Ketorolac
RL: RCT (Reactant); RACT (Reactant or reagent)
(prepn. of org. nitrate esters having antiinflammatory and/or analgesic activity from)
- IT 5394-18-3P 38835-18-6P, 2-(6-Methoxy-2-naphthyl)propionyl chloride
55577-80-5P, Sodium 2-(6-methoxy-2-naphthyl)propionate 164790-50-5P
164790-51-6P 164790-52-7P 164790-53-8P 164790-54-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of org. nitrate esters having antiinflammatory and/or analgesic activity from)
- IT 170591-17-0P
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation);
USES (Uses)
(prepn. of org. nitrate esters having antiinflammatory and/or analgesic activity)
- RN 170591-17-0 HCAPLUS
- CN 2-Naphthaleneacetic acid, 6-methoxy-.alpha.-methyl-, 4-(nitrooxy)butyl ester (9CI) (CA INDEX NAME)

